

We welcome all our new employees!

NEW EMPLOYEES - CASTOOL

Moe Sistar Lathe Operator

Fred Jordan General Labour Equipment

> Gurvinder Pannu Drill Operator

> > Mike Landa Packaging

Brian Francis CNC Machinist

Johnson Kurian Panel Builder

Stephen Imeson Gun Drill Operator

Randy Mosure Boring Mill Operator

Sharif Haidair General Labour Manufacturing

> Kyle Lewis General Labour Cleaner

Fahmi Saeed Equipment Technician

Simran Mavi **Production Planner**

NEW EMPLOYEES - CASTOOL 180

Jaruwan Daengchart QA&QC / Inventory Control

Sommai Rueangwong General Labor

Pimpaporn Kritsanasakul Purchasing, BOI & Import

GLOBAL SALES DIRECTORS



Director



Extrusion Sales

Dan Dunn has been very successful at helping extruders use our equipment and systems to optimize their productivity, and he continues to do so on a global scale.

Ken Chien is now Sales Director for Die Cast and continues his role as Product Director. helping with design, articles, simulations and to diagnose problems. He will be very involved in the set-up of the new heat treatment and nitriding equipment (see page 3).

Ken Chien **Die Cast Sales** Director

MANAGEMENT TEAM CASTOOL 180





we are busy preparing for expansion in 2020! To meet those challenges, changes have been

Business is increasing steadily in Thailand, and

made in the management team: Raj being promoted to Process Manager and Anu promoted to Production Manager. Their skills compliment each other.

Raj Sagoo Process Manager

Wachirapan (Anu) Rintawong

Production Manager

NEW POSITION - SCHEDULING



Simran Mavi **Production Planner**

With 800 - 1000 orders to fill each month, it has become necessary to create a new position to coordinate this important task to meet our customers needs in a timely manner.

We welcome Simran Mavi to take on this responsibility. She worked as a Logistics Coordinator and Production Planner prior to joining Castool last month. With a BBA, Simran will be responsible for all scheduling at both plants.

See page 8 for a complete list of our International Sales Team

DID YOU KNOW...

that Castool is constantly working on new technology and currently has patents pending for:



WE'RE EXPANDING!

In the planning stages is a new addition to the north side of the Uxbridge plant of almost 20,000 sq. ft with a back entrance and new loading dock.

2019 EQUIPMENT:

Heat Treatment Furnaces will allow for shorter lead times, especially for shot sleeves. We will be able to manage and protect our recipes, and create new recipes for heat treatment, nitriding and other surface coatings.



HARDENING FURNACE



TEMPER AND NITRIDING FURNACE





5 AXIS MILLING







SPRUE BUSHINGS

SHOT BLOCKS

SHEAR BLADES

In an effort to reduce costs and lead times, we will be adding a **high speed 5 axis milling machine** for shear blades, sprue bushings, shot blocks and other tooling requiring multi axis milling.

Tuff Temper Marathon

Tuff Temper is a patented material made exclusively for Castool by Schmolz + Bickenbach. The higher molybdenum contents increase the Tuff-Temper hot yield strength (at 800°F/425°C) by about 10%. Marathon continues to work well for high pressure, long cycle time applications – typically with hard alloy profiles for the automotive industry.



The Aluject Applicator

We are now offering two different types of applicators at different price points, depending on the application and user preferences.



EXTRUSION UPDATES

QR Container continues to increase ram speeds



The simulation at University of Waterloo is providing us with a better understanding of the following relationships:

- The effect of container material (thermal conductivity of the steel 4340 vs H13) can reduce the profile exit temperature
- The effect of billet temperature to the exit temperature
- The effect of ram speed to the exit temperature
- The effect of liner temperature to the exit temperature
- The effect of container gradient (front to back) to the exit temperature

Conclusions:

You can increase productivity by 50% or more if you use the right container design to compensate/reduce profile exit temperature.

ARTICLE ALERT: LIGHT METAL AGE

Watch for our article on Extrusion Productivity in the coming months that will discuss the results of this simulation; how the container design, materials and temperature affects productivity



CLS-200

This Vegetable Ester Based Lubricant is performing well

- NO CONTAMINATION
- NO FLAME
- IMPROVED PRODUCT QUALITY

Plunger tip lubricant formulated for lubrication of all types of plunger tips: Beryllium copper, bronze, steel and all diameters

- Highly economical
- Biodegradable
- Does not contain graphite
- Blue in color
- Good adherence to tip and sleeve
- Excellent thermal stability
- Easily applied by automatic or manual spray equipment, supplied ready-for-use
- High flashpoint
- Very good anti-wear properties
- High load capacity
- High viscosity index
- Minimal smoke

DIE CAST UPDATES

The CLASSIC: ARP regains product status as the one-piece simple plunger

A number of customers have been asking for a simpler Plunger Tip – the AMP and ABP designs are sometimes too complicated, depending on the application and user preferences. In response, we have reintroduced the ARP using Con-Duct and A52 with steel and copper rings.



Shot Sleeve Inserts

Inserts are becoming popular with many high production die casters. With advanced manufacturing techniques, there are no fit problems. Most inserts are nitrided and 3-P coated.



3D PRINTING

New technology available at EXCO ENGINEERING

EQUIPMENT:

2x EOS M400 3D printers Build Envelope: 400mm3(16in3) Material: Maraging Steel **300+ inserts in production globally** For more information:www.excoeng.com/additive.php

Case Study: 3D Printed Shot Blocks/Shot Risers



CONFORMALLY COOLED INSERT



Conformally cooled section hybrid printed on top of H13

Single in, single out to cool entire insert

FINISH MACHINED POLISHED



FINAL PRODUCT COATED





Our global presence is key to our success



EXTRUSION TRADE SHOW

October 9 - 11, 2018 Düsseldorf, Germany

EUROGUSS 2018

DIE CAST

TRADE SHOW

October 24 - 26, 2018

Guadalajara, Mexico

MEXICO



DIE CAST TRADE SHOW BOOTH # 514

October 15 - 17, 2018 Indianapolis, USA



DIE CAST TRADE SHOW

November 8 - 10, 2018 Yokohama, Japan



EXTRUSION & DIE CAST TRADE SHOW

November 21 - 24, 2018 Bangkok, Thailand



EXHIBITION & CONFERENCE - ALUMINIUM DIE-CASTING 6 - 8 DECEMBER 2018 | INDIA EXPO MART (IEML), GREATER NOIDA, U.P. (DELHI-NCR), INDIA

> DIE CAST TRADE SHOW

December 6 - 8 2018 New Delhi, India



THE INTERNATIONAL TEAM

Dan Dunn Ken Chien

Natalya Pieri Keattikhun Chaichana

Jean Dembowski Tanmanun Tiantip Christine Kaschuba Sue Lotton Sue Su Dan Phudis Ploy Robbins

CANADA / USA

Krystean Rose Matt Binns Andre Iulianetti Jon Veenstra Sebastien Deroy Ron Steinenger Sam Durbin Tom Troxclair

LATIN AMERICA

Valentin Meneses Carlos Lima Osvaldo Lomas Alberto Forcato

EUROPE

Emmanuel Bach Olivier Druhen Bertrand Schnell Emmanuel Mandrelli Pascal Schroung Lars-Goran Nilsson Luciano Pedrini Jakub Jasiewicz Edgar Seufert Jurgen Barz

UAE

Emannuel Mandrelli

ISRAEL

Tuvia Kornfield

TURKEY

Cenk Sommez

Extrusion Sales Director Die Cast Sales Director

Product Specialist Europe Product Specialist Asia

Commercial Manager Commercial Supervisor Customer Service Customer Service Customer Service Customer Service Marketing Director

Castool Castool Castool JW Industries LLC Sea Bass Outdoors R-Bet Sales Inc R-Bet Sales Inc Troxclair and Associates

Kautec America KTC do Brasil Casmet Forcato Technologia

Comexale Comexale Comexale Comexale TEL Nordic APS Techno Moulds KDO Komponenty Dla Odlewnictwa Schmelzmetall Schmelzmetall

Comexale

NTK Plants Management

BCM Makina Kimya

SOUTH AFRICA

Olivier Druhen

JAPAN

Shigeyoshi Takagi Tetsuya Ishida Yasunori Ito Nami Ito

KOREA

JH Song SW Song Taek Jean Hwang

TAIWAN

Jack Lee

CHINA

Daniel Cheng Long Shun Cheng

THAILAND

Manu Mekdhanasarn Patcharee Parkong

VIETNAM

Manu Mekdhanasarn Patcharee Parkong Tran Thi Thanh Thuy

INDONESIA

Yovinus Krisnanto

MALAYSIA

Manu Mekdhanasarn Patcharee Parkong Chek Tay

SINGAPORE

Manu Mekdhanasarn Patcharee Parkong

INDIA

Sachin Kumar

AUSTRALIA/NEW ZEALAND

Doug Loader

Techno Consul Benchmarks Tandem Technologies KBS Kubo Manufacturing Co KBS Kubo Manufacturing Co

ANK Ltd ANK Ltd GS Tech Solutions

Comexale

Shiny Lee

OEA Bridge Link OEA Bridge Link

Siam Anglo Alloy Company Ltd Siam Anglo Alloy Company Ltd

Siam Anglo Alloy Company Ltd Siam Anglo Alloy Company Ltd Thang Long Mechanics Equipment Co

PT Wilisindomas Indahmakmur

Siam Anglo Alloy Company Ltd Siam Anglo Alloy Company Ltd Lustre Specialty Materials

Siam Anglo Alloy Company Ltd Siam Anglo Alloy Company Ltd

Extrusion Machine Co New Zealand